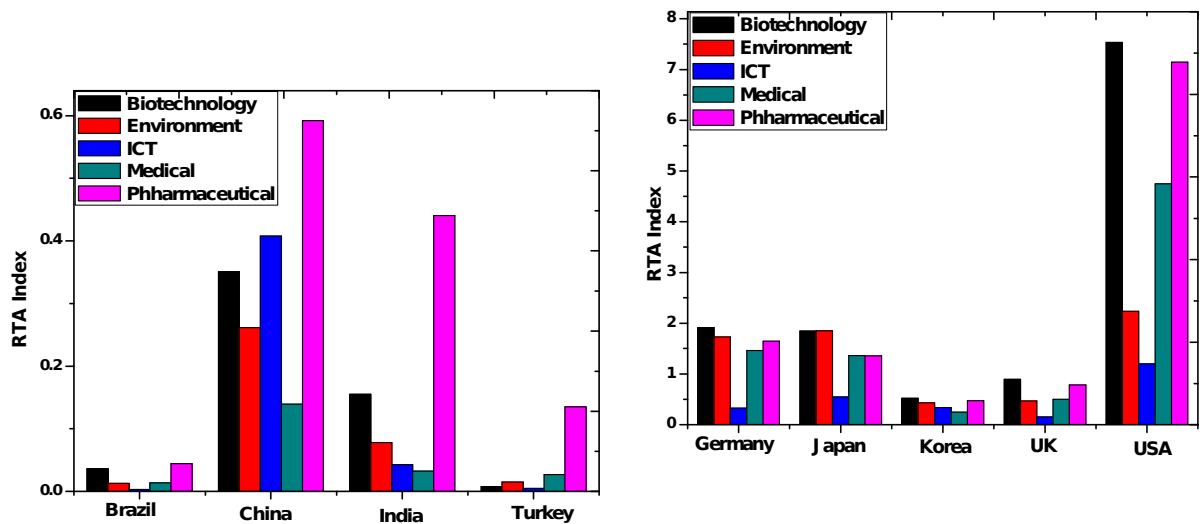


Research Highlight

The research group on Innovation Studies focuses on issues related to R&D, patenting, technological progress, patent policy and economic growth. Recently, we have studied the impact of technological specialization on the export performance of countries including developing and developed. We use patenting data to measure the technological specialization of countries in different fields by calculating revealed technology advantage (RTA) index and revealed patent advantage (RPA) index. Figures 1 and 2 depict the RTA index in different fields of technology for selected developing and developed countries respectively. Evidently, the index value is less than 1 for developing countries and greater than 1 for most of the developed countries, affirming the technological leadership of such countries. We find that USA has high RTA value in all fields of technology except information and communication technology (ICT). In case of developing countries, we find that China and India are trying to catch-up in the fields of pharmaceutical, ICT and biotechnology.

Figure 1: RTA index of Developing Countries

Figure 2: RTA index of Developed Countries



We also find that technological specialization stimulates high-technology exports as shown in Figure 3.

Figure 3: Technological Specialization and High Technology Exports

